

1 provision to identify and isolate the route line or other chart
3 features by means of a mouse or other input device. Thus, on Internet
5 flight planners of prior art the route must be generated and built on
7 the Server. Then once built and combined as a new image the Server
9 must upload the image onto the Client computer. This forces the screen
11 to be totally refreshed, which again produces the undesirable side
13 effect of the user loosing his reference and adding confusion to the
15 planning process.

17. Now observing Figure ~~13~~¹³, and in accordance with an important
19 aspect (one of the main features) of the invention these shortcomings
21 are overcome by means of:

- 23 1) A Chart Scrolling software system (28), residing on an Internet
25 Server hard disk (8), which facilitates chart scrolling and chart
27 viewing without refreshing the entire Client computer display (27).
29 Pursuant to the invention, the loaded chart (29) is always larger
31 (e.g. the absolute X, Y, pixel dimension) than the assigned chart
33 window area (30) residing on the Client Display (28). This provides
35 two very important benefits. First, it allows the Client's browser
37 to turn on the scroll bars, and second, as a result, the chart may
39 be scrolled up to the limit of the underlying loaded chart,
- 41 2) In the preferred embodiment, if the chart scrolling results in
43 moving past an area beyond the bounds of a previously loaded chart,
45 a window pops up and informs the user that a new chart segment is
47 being loaded. During this loading process, the previously loaded
49 chart remains on screen (e.g. the user is able to view the remaining
chart without loosing his reference). A new cached chart is then
delivered to the Client corresponding to the newly desired chart

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Brief Description of the Drawings

Figure A1 is a flow chart of the operations that comprise the Server.

Figure A2 is a flow chart of the operations that comprise chart creation.

Figure A3 is a flow chart of the Chart retrieval, Scrolling, and *Route drawing*
~~Routing~~ System.

~~Figure A4 illustrates the chart retrieval, scrolling and route drawing processes.~~ *No such figure.*